Alkesh Punjabi

List of Publications by Year
in descending order

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32 papers	343 citations	933447 10 h-index	794594 19 g-index
32 all docs	32 docs citations	32 times ranked	178 citing authors

#	Article	IF	Citations
1	Magnetic turnstiles in nonresonant stellarator divertor. Physics of Plasmas, 2022, 29, .	1.9	2
2	Simulation of non-resonant stellarator divertor. Physics of Plasmas, 2020, 27, 012503.	1.9	3
3	Homoclinic tangle of the primary separatrix in the compact and closed versus open and unbounded magnetic topologies for divertor tokamaks. Radiation Effects and Defects in Solids, 2018, 173, 138-147.	1.2	0
4	Simulation of stellarator divertors. Physics of Plasmas, 2018, 25, .	1.9	10
5	Homoclinic tangles in the DIII-D tokamak from the map equations in natural canonical coordinates*. Radiation Effects and Defects in Solids, 2017, 172, 150-158.	1.2	0
6	Loss of relativistic electrons when magnetic surfaces are broken. Physics of Plasmas, 2016, 23, 102513.	1.9	21
7	Homoclinic tangle of the ideal separatrix in the DIII-D tokamak from (30, 10) + (40, 10) perturbation. Physics of Plasmas, 2014, 21, .	1.9	3
8	Homoclinic tangle in tokamak divertors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2410-2416.	2.1	16
9	Symplectic calculation of magnetic footprints in the DIII-D with low mn and magnetic noise and error fields perturbations. Radiation Effects and Defects in Solids, 2013, 168, 724-734.	1.2	0
10	The strongest magnetic barrier in the DIII-D tokamak and comparison with the ASDEX UG. Radiation Effects and Defects in Solids, 2013, 168, 323-335.	1.2	0
11	Comparison of inboard and outboard magnetic footprints from topological noise and field errors in the DIII-D. Radiation Effects and Defects in Solids, 2011, 166, 806-820.	1.2	0
12	Symplectic calculation of the outboard magnetic footprint from noise and error fields in the DIII-D. Journal of Plasma Physics, 2011, 77, 785-802.	2.1	0
13	An accurate symplectic calculation of the inboard magnetic footprint from statistical topological noise and field errors in the DIII-D. Physics of Plasmas, 2011, 18, .	1.9	8
14	Noble magnetic barriers in the ASDEX UG tokamak. Radiation Effects and Defects in Solids, 2010, 165, 83-95.	1.2	3
15	The symmetric quartic map for trajectories of magnetic field lines in elongated divertor tokamak plasmas. Physics of Plasmas, 2009, 16, 042511.	1.9	4
16	Stochastic layer scaling in the two-wire model for divertor tokamaks. Journal of Plasma Physics, 2009, 75, 303-318.	2.1	4
17	An area-preserving mapping in natural canonical coordinates for magnetic field line trajectories in the DIII-D tokamak. Nuclear Fusion, 2009, 49, 115020.	3.5	8
18	Scaling results for the magnetic field line trajectories in the stochastic layer near the separatrix in divertor tokamaks with high magnetic shear using the higher shear map. Plasma Physics and Controlled Fusion, 2009, 51, 075009.	2.1	2

#	Article	IF	Citations
19	Simple map in action-angle coordinates. Physics of Plasmas, 2008, 15, 072504.	1.9	5
20	Symplectic approach to calculation of magnetic field line trajectories in physical space with realistic magnetic geometry in divertor tokamaks. Physics of Plasmas, 2008, 15, 122502.	1.9	17
21	Modeling of stochastic broadening in a poloidally diverted discharge with piecewise analytic symplectic mapping flux functions. Physics of Plasmas, 2008, 15, 082507.	1.9	10
22	Effects of low and high mode number tearing modes in divertor tokamaks. Physics of Plasmas, 2007, 14, .	1.9	5
23	Building magnetic barriers in tokamaks. Plasma Physics and Controlled Fusion, 2007, 49, 1565-1582.	2.1	3
24	Effect of magnetic perturbations on tokamak divertors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 364, 140-145.	2.1	15
25	Derivation of the dipole map. Physics of Plasmas, 2004, 11, 4527-4530.	1.9	8
26	The low MN map for single-null divertor tokamaks. Physics of Plasmas, 2004, 11, 1908-1919.	1.9	26
27	Effects of dipole perturbation on the stochastic layer and magnetic footprint in single-null divertor tokamaks. Physics of Plasmas, 2003, 10, 3992-4003.	1.9	19
28	Symmetric simple map for a single-null divertor tokamak. Physics of Plasmas, 1997, 4, 337-346.	1.9	42
29	Tokamak divertor maps. Journal of Plasma Physics, 1994, 52, 91-111.	2.1	30
30	Stochastic broadening of the separatrix of a tokamak divertor. Physical Review Letters, 1992, 69, 3322-3325.	7.8	79
31	A catastrophe-theory study of a two-chamber model for a tokamak scrape-off and divertor. Journal of Plasma Physics, 1989, 42, 59-74.	2.1	0
32	Correlation between time- and depth-resolved simulated lidar signals. International Journal of Remote Sensing, 1986, 7, 1377-1382.	2.9	0